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PATENT
IOS9601CIPD

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: D'Ausilio, et al.

Examiner: Swiatek, Robert P.

Serial No.: 10/779,869

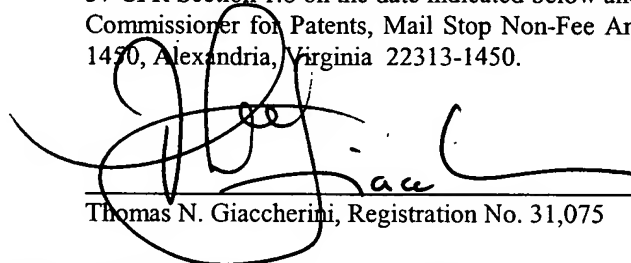
Group Art Unit: 3643

Title: **In Orbit Space Transportation
& Recovery System**

Filed: 17 February 2004

CERTIFICATE OF MAILING UNDER 37 C.F.R. SECTION 1.8

The undersigned hereby certifies that this document is being deposited with the United States Postal Service in accordance with the provisions of 37 CFR Section 1.8 on the date indicated below and is addressed to The Commissioner for Patents, Mail Stop Non-Fee Amendment, P.O. Box 1450, Alexandria, Virginia 22313-1450.


Thomas N. Giaccherini, Registration No. 31,075

Date 14 July
2005.

SECOND DISCLOSURE STATEMENT

The Commissioner for Patents
Mail Stop Non-Fee Amendment
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

The Applicants submit this Second Disclosure Statement in accordance with 37 CFR Sections 1.56, 1.97 and 1.98 to disclose the results of an International Search Report that was issued by the European Patent Office for a corresponding PCT International Patent Application No. PCT/GB2004/000378 on 22 October 2004. A copy of the EPO ISR is attached. A completed PTO Form-SB/08A&B accompanies this Second Disclosure Statement.

DISCLOSURE DOCUMENTS

Document 2A

Martin- *Nuclear Electric Propulsion of Spacecraft*

describes the use of space nuclear power supplies to provide electrical power.

Document 2B

Jaffe- *Nuclear-Electric Reusable Orbital Transfer Vehicle*

describes the system requirements for a 300-kWe space nuclear reactor system.

Document 2C

Lenard- *Nuclear Electric Propulsion for Enhanced Mars Sample Return Missions*

describes the user of a nuclear electric propulsion
vehicle to retrieve soil samples from Mars.

Document 2D

Schall- *Laser Radiation for Cleaning Space Debris from Lower Earth Orbits*

describes the use of high power laser radiation to mitigate the threat of collisions of a space
station with orbital debris.

Document 2E

El-Genk- *Space Nuclear Power Systems*

A Power Propulsion System Based on a Second-Generation Thermionic NPS of the "Topaz" Type

describes power propulsion systems- universal space platforms.

Document 2F

Bruno- *Building Roadmaps for Space Transportation of the XXIst Century*

describes presentations in a nuclear propulsion workshop.

Document 2G

Minovitch- *Self-Refueling Space Propulsion System and Operating Method*

describes a propulsion system for reusable space-based vehicles.

Document 2H

Deininger- *Arcjet Propulsion System for an SP-100 Flight Experiment*

describes an arcjet nuclear electric propulsion spacecraft.

Second Disclosure Statement for U.S.S.N. 10/779,869
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Document 2I

Ageev- *Spacecraft Combined Electro-Reactive Drive Unit*

describes a nuclear power plant with radiation protection, a refrigerator-radiator and a heat screen.

Document 2J

Shepherd- *Performance Criteria of Nuclear Space Propulsion Systems*

describes the development of advanced nuclear propulsion systems.

Document 2K

Loeb- *A Nuclear-Electric Propulsion Module for Advanced Solar System Exploration Programs*

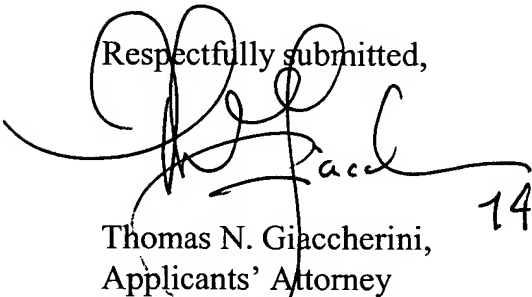
describes nuclear-electric propulsion for space exploration.

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CONCLUSION

The Applicants submit that none of the documents described above disclose the Invention as claimed in the Present Patent Application as revised by the First Preliminary Amendment submitted by the Applicants. A First Office Action has not yet issued for the Present Application. In accordance with 37 CFR Section 1.97(b)(3), the Applicants believe that no fee is required to submit this Disclosure Statement.

Respectfully submitted,


Thomas N. Giaccherini,
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Registration No. 31,075

14 July 2005.

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Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet	One	of	Two
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Complete if Known

Application Number	10/779,869
Filing Date	17 February 2004
First Named Inventor	D'Ausilio
Art Unit	3643
Examiner Name	Swiatek
Attorney Docket Number	IOS9601CIPD

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date
Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/779,869
Filing Date	17 February 2004
First Named Inventor	D'Ausilio
Art Unit	3643
Examiner Name	Swiatek
Attorney Docket Number	IOS9601CIPD

Sheet Two of Two

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	2A	MARTIN Nuclear Electric Propulsion of Spacecraft	
	2B	JAFFE Nuclear-Electric Reusable....	
	2C	LENARD Nuclear Electric Propulsion for Enhanced Mars Sample Return Missions	
	2D	SCHALL Laser Radiation for Cleaning Space Debris....	
	2E	EL-GENK Space Nuclear Power Systems	
	2F	BRUNO Building Roadmaps....	
	2H	DEININGER Arcjet Propulsion	
	2J	SHEPHERD Performance Criteria	
	2K	LOEB A Nuclear-Electric Propulsion Module for Advance Solar System Exploration....	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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